

142724  
SEARCH REQUEST FORM

Access DB#

LB

Scientific and Technical Information Center

Requester's Full Name: V. Weddington Examiner #: 68082 Date: 1-14-05  
Art Unit: 1614 Phone Number 301-272-0587 Serial Number: 101617,424  
Mail Box and Bldg/Room Location: REM-3A65 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

C<sub>1</sub>-C<sub>6</sub> alkyl, and R<sup>30</sup> is H, halogen, trifluoromethyl, OCF<sub>3</sub>, NO<sub>2</sub>, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>8</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> alkyloxy, C<sub>1</sub>-C<sub>6</sub> alkyloxy C<sub>1</sub>-C<sub>6</sub> alkyl, hydroxy C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylamino C<sub>1</sub>-C<sub>6</sub> alkyl, amino C<sub>1</sub>-C<sub>6</sub> alkyl, or C<sub>6</sub>-C<sub>18</sub> aryl, and

each of R<sup>12</sup> and R<sup>13</sup> is, independently, H, Cl, Br, OH, OCH<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>,

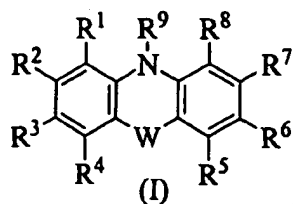
5 and NH<sub>2</sub>, or R<sup>12</sup> and R<sup>13</sup> together form a single bond.

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Amok</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>22532</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbi: _____
Date Searcher Picked Up: <u>1/24/05</u>	Bibliographic _____	Dr.Link _____
Date Completed: <u>1/31/05</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clenical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

2. A method for treating a patient having a neoplasm, said method comprising administering to said patient:

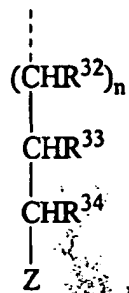
15 a) a first compound having the formula (I):



or a pharmaceutically acceptable salt thereof,

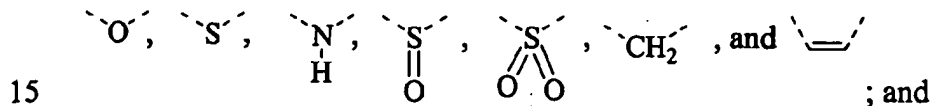
wherein  $R^2$  is selected from the group consisting of:  $CF_3$ , halo,  $OCH_3$ ,  $COCH_3$ ,  $CN$ ,  $OCF_3$ ,  $COCH_2CH_3$ ,  $CO(CH_2)_2CH_3$ , and  $SCH_2CH_3$ ;

$R^9$  has the formula:

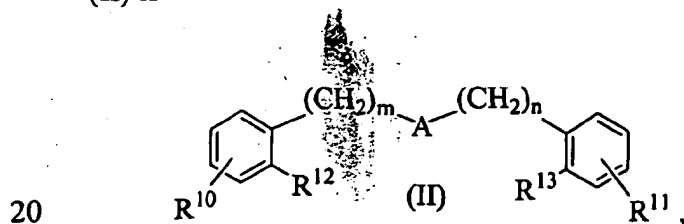


wherein  $n$  is 0 or 1, each of  $R^{32}$ ,  $R^{33}$ , and  $R^{34}$  is, independently, H or substituted or unsubstituted  $C_{1-6}$  alkyl, and  $Z$  is  $\text{NR}^{35}\text{R}^{36}$  or  $\text{OR}^{37}$ , wherein each of  $R^{35}$  and  $R^{36}$  is,  
 5 independently, H, substituted or unsubstituted  $C_{1-6}$  alkyl, substituted or unsubstituted alkaryl, substituted or unsubstituted alkheteroaryl, and  $R^{37}$  is H,  $C_{1-6}$  alkyl, or  $C_{1-7}$  acyl, wherein any of  $R^{33}$ ,  $R^{34}$ ,  $R^{35}$ , and  $R^{36}$  can be optionally taken together with intervening carbon or non-vicinal O, S, or N atoms to form one or more five- to seven-membered rings, substituted with one or more hydrogens,  
 10 substituted or unsubstituted  $C_{1-6}$  alkyl groups,  $C_{6-12}$  aryl groups, alkoxy groups, halogen groups, substituted or unsubstituted alkaryl groups, or substituted or unsubstituted alkheteroaryl groups;

each of  $R^1$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ , and  $R^8$  is independently H, OH, F,  $\text{OCF}_3$ , or  $\text{OCH}_3$ ; and  $W$  is selected from the group consisting of:

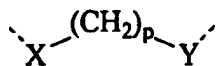


b) a second compound of formula (II);, wherein said compound of formula (II) is



or a pharmaceutically acceptable salt thereof,

wherein A is



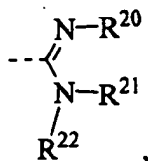
each of X and Y is, independently, O or NH,

p is an integer between 2 and 6, inclusive,

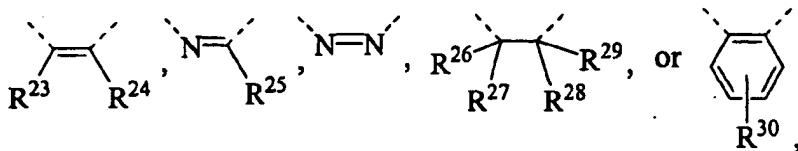
5 each of m and n is, independently, an integer between 0 and 2, inclusive,

wherein the sum of m and n is greater than 0,

each of R<sup>10</sup> and R<sup>11</sup> is, independently, selected from the group represented by



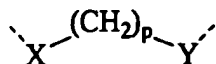
10 wherein R<sup>21</sup> is H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>8</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> alkyloxy C<sub>1</sub>-C<sub>6</sub> alkyl, hydroxy C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylamino C<sub>1</sub>-C<sub>6</sub> alkyl, amino C<sub>1</sub>-C<sub>6</sub> alkyl, or , R<sup>22</sup> is H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>8</sub> cycloalkyl, C<sub>6</sub>-C<sub>18</sub> aryloxy C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl, hydroxy C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylamino C<sub>1</sub>-C<sub>6</sub> alkyl, amino C<sub>1</sub>-C<sub>6</sub> alkyl, carbo(C<sub>1</sub>-C<sub>6</sub> alkoxy), carbo(C<sub>6</sub>-C<sub>18</sub> aryl-C<sub>1</sub>-C<sub>6</sub> alkoxy), carbo(C<sub>6</sub>-C<sub>18</sub> aryloxy), or C<sub>6</sub>-C<sub>18</sub> aryl, and R<sup>20</sup> is H, OH, or oxy(C<sub>1</sub>-C<sub>6</sub> alkyl), or R<sup>20</sup> and R<sup>21</sup> together represent



20 wherein each of R<sup>23</sup>, R<sup>24</sup>, and R<sup>25</sup> is, independently, H, C<sub>1</sub>-C<sub>6</sub> alkyl, halogen, or trifluoromethyl, each of R<sup>26</sup>, R<sup>27</sup>, R<sup>28</sup>, and R<sup>29</sup> are, independently, H or C<sub>1</sub>-C<sub>6</sub> alkyl, and R<sup>30</sup> is H, halogen, trifluoromethyl, OCF<sub>3</sub>, NO<sub>2</sub>, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>8</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> alkyloxy, C<sub>1</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl, hydroxy C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylamino C<sub>1</sub>-C<sub>6</sub> alkyl, amino C<sub>1</sub>-C<sub>6</sub> alkyl, or C<sub>6</sub>-C<sub>18</sub> aryl,

each of  $R^{12}$  and  $R^{13}$  is, independently, H, Cl, Br, OH,  $OCH_3$ ,  $OCF_3$ ,  $NO_2$ , and  $NH_2$ , or  $R^{12}$  and  $R^{13}$  together form a single bond;

or A is



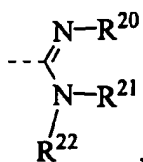
5 each of X and Y is, independently, O or NH,

p is an integer between 2 and 6, inclusive,

each of m and n is 0, and

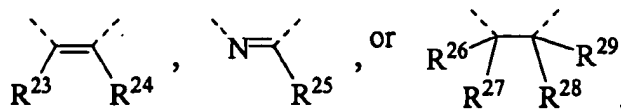
each of  $R^{10}$  and  $R^{11}$  is, independently, selected from the group represented

by



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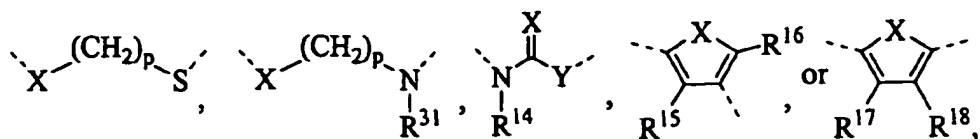
wherein  $R^{21}$  is  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_8$  cycloalkyl,  $C_1$ - $C_6$  alkoxy  $C_1$ - $C_6$  alkyl, hydroxy  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  alkylamino  $C_1$ - $C_6$  alkyl, amino  $C_1$ - $C_6$  alkyl, or  $C_6$ - $C_{18}$  aryl,  $R^{22}$  is H,  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_8$  cycloalkyl,  $C_1$ - $C_6$  alkyloxy,  $C_1$ - $C_6$  alkyloxy  $C_1$ - $C_6$  alkyl, hydroxy  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  alkylamino  $C_1$ - $C_6$  alkyl, amino  $C_1$ - $C_6$  alkyl, 15 carbo( $C_1$ - $C_6$  alkyloxy), carbo( $C_6$ - $C_{18}$  aryl  $C_1$ - $C_6$  alkyloxy), carbo( $C_6$ - $C_{18}$  aryloxy), or  $C_6$ - $C_{18}$  aryl, and  $R^{20}$  is H, OH, or  $C_1$ - $C_6$  alkyloxy, or  $R^{20}$  and  $R^{21}$  together represent



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wherein each of  $R^{23}$ ,  $R^{24}$ , and  $R^{25}$  is, independently, H,  $C_1$ - $C_6$  alkyl, halogen, or trifluoromethyl, each of  $R^{26}$ ,  $R^{27}$ , and  $R^{28}$  is, independently, H or  $C_1$ - $C_6$  alkyl, and  $R^{29}$  is  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  alkyloxy, or trifluoromethyl;

or A is



each of X and Y is, independently, O, NR<sup>19</sup>, or S,

each of R<sup>14</sup> and R<sup>19</sup> is, independently, H or C<sub>1</sub>-C<sub>6</sub> alkyl,

5 each of R<sup>15</sup>, R<sup>16</sup>, R<sup>17</sup>, and R<sup>18</sup> is, independently, H, C<sub>1</sub>-C<sub>6</sub> alkyl, halogen,

C<sub>1</sub>-C<sub>6</sub> alkyloxy, C<sub>6</sub>-C<sub>18</sub> aryloxy, or C<sub>6</sub>-C<sub>18</sub> aryl C<sub>1</sub>-C<sub>6</sub> alkyloxy,

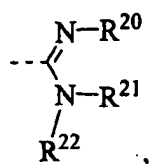
R<sup>31</sup> is C<sub>1</sub>-C<sub>6</sub> alkyl,

p is an integer between 2 and 6, inclusive,

each of m and n is, independently, an integer between 0 and 2, inclusive,

10 each of R<sup>10</sup> and R<sup>11</sup> is, independently, selected from the group represented

by



wherein R<sup>21</sup> is H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>8</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl,

hydroxy C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylamino C<sub>1</sub>-C<sub>6</sub> alkyl, amino C<sub>1</sub>-C<sub>6</sub> alkyl, or C<sub>6</sub>-C<sub>18</sub>

15 aryl, R<sup>22</sup> is H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>8</sub> cycloalkyl, C<sub>6</sub>-C<sub>18</sub> aryloxy C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub>

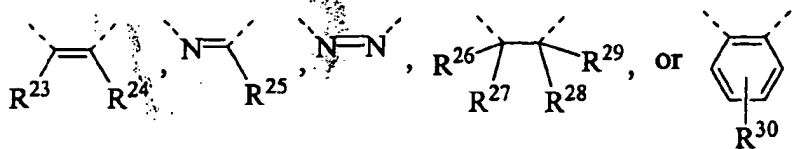
alkyloxy C<sub>1</sub>-C<sub>6</sub> alkyl, hydroxy C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylamino C<sub>1</sub>-C<sub>6</sub> alkyl, amino

C<sub>1</sub>-C<sub>6</sub> alkyl, carbo(C<sub>1</sub>-C<sub>6</sub> alkyloxy), carbo(C<sub>6</sub>-C<sub>18</sub> aryl C<sub>1</sub>-C<sub>6</sub> alkyloxy), carbo(C<sub>6</sub>-

C<sub>18</sub> aryloxy), or C<sub>6</sub>-C<sub>18</sub> aryl, and R<sup>20</sup> is H, OH, or C<sub>1</sub>-C<sub>6</sub> alkyloxy, or R<sup>20</sup> and R<sup>21</sup>

together represent

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wherein each of R<sup>23</sup>, R<sup>24</sup>, and R<sup>25</sup> is, independently, H, C<sub>1</sub>-C<sub>6</sub> alkyl,

halogen, or trifluoromethyl, each of R<sup>26</sup>, R<sup>27</sup>, R<sup>28</sup>, and R<sup>29</sup> are, independently, H or



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 142724

TO: Kevin Weddington  
Location: REM-3A65/3C70  
Art Unit: 1614  
Monday, January 31, 2005

Case Serial Number: 10/617424

From: Deirdre Arnold  
Location: Biotech-Chem Library  
REM 1A64  
Phone: 571-272-2532

Deirdre.Arnold@uspto.gov

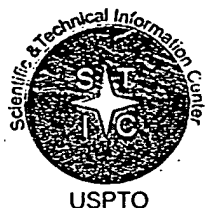
### Search Notes

- Packets 1 & 2 contain the structure search; packet 3 contains the inventor search (beware of false hits on names).
- Multiple structure queries were used in an effort to encompass all of the possibilities for compound "b".
- The claims are quite broad, so there are many hit structures. Except for WPIX, all of the databases were searched using CAS RNS because there were too many hit structures to search all of the names. **There is a high probability of missing hits because many databases do not consistently index CAS RNs.** If you can come up with some specific examples of compounds "a" and "b", they could be searched by name and the hits might be more substantive.

*Please feel free to contact me if you have any questions or would like to amend the search.*

Thank you for using STIC services.

Regards,  
Deirdre Arnold



# STIC SEARCH RESULTS FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher* or contact:

Mary Hale, Information Branch Supervisor  
571-272-2507 Remsen E01 D86

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library Remsen Bldg.

